FMA-121

TECHNICAL SPECIFICATIONS

iNetVu®
by C-COM Satellite Systems Inc.

The iNetVu® 121 Fixed Motorised Antenna system is a self-pointing auto-acquire unit that can be mounted either as a permanent installation or on a portable fixed base. The antenna works seamlessly with the iNetVu® 7715 Controller.

Features

- 1.2m Offset, prime focus, thermoset-molded reflector
- Designed to work with the iNetVu® 7715 Controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 2 or 3 Axis motorization
- Supports manual control when required
- It is a cost effective solution for multi-satellite communication at any location
- One button, auto-pointing controller acquires any Ku-band satellite within 2 minutes
- X-band Optional (2 Axis)
- Locates satellites using the most advanced satellite acquisition methods
- Eliminates costly repointing and network downtime due to adverse weather conditions or areas where ground shifts occur (earthquakes, landslides, mine blast zones, etc...)
- Can be easily relocated when mounted on a semi-permanent platform without the need for any specialized equipment
- Any compatible fixed installation can be easily converted and upgraded to a fully motorized system
- Supports Prodelin 1.2m antenna, Model 1132 / 1134
- System designed for relatively large BUCs, 9 kg (Max.) weight for RF electronics (BUC and LNB)
- 1 year warranty

Application Versatility

The FMA-121 system is easily configured to provide instant access to satellite communications for any application that requires reliable and/or remote connectivity in a rugged environment. Ideally suited for industries such as Oil & Gas Exploration, Mining, Disaster Management, Construction, Mobile Offices, Emergency Services, Cellular Backhaul and many others.

C-COM SATELLITE SYSTEMS INC.

613-745-4110 | 1- 877-463-8886 (1- 877-iNetVu6)
www.c-comsat.com

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Mechanical

Antenna Size	1.2m (48")
Reflector Material	Glass reinforced polyester SMC
Platform Type	2 or 3 Axis Motorized, Galvanized steel
Antenna optics	Prime Focus, offset feed, Linear Orthogonal
Mast Size	2.5 SCH 80 pipe (3.00" OD)
Elevation Range	0º to 90º
Azimuth Range	340º
Polarization Range	± 90º

Environmental

Wind Loading	
Operational	72 km/h (45mph)
Survival	200 km/h (125mph)
Temperature	
Operational	-30ºC to 55ºC (-22°F to 130°F)
Survival	-40ºC to 65ºC (-40°F to 150°F))

Electrical

Elevation Motor	24VDC
Azimuth Motor	24VDC
Rx & Tx Cables	2 RG6 Cables -15m (50 ft) each
Control Cables	
Standard	15m (50 ft) Ext. Cable
Optional(1)	Up to 60m (200 ft) available

	Ku-band (Linear)	X-band (Circular)
Receive Frequency (GHz)	10.70 - 12.75(2)	7.25 - 7.75
(Optional)	10.70 - 11.70	
Transmit Frequency (GHz)	13.75 - 14.80	7.90 - 8.40
(Optional)	12.75 - 14.50	
Midband Gain(±0.2 dB)		
(Rx)	41.50	37.40
(Tx)	43.00	38.10
Antenna Noise Temp. (K)	20° EL=46 / 30° EL=43	20°EL=51.6
Sidelobe Envelope, Co-Pol (dBi)		
1º < Ø < 20º	29 - 25 Log Ø	DSCS Req.
20º < Ø < 26.3º	-3.5	
26.3º < Ø < 48º	32 -25 Log Ø	
48º < Ø < 180º	-10 (avereaged)	
Cross-Polarization		
Within 1 dB contour	-30 dB (Max.)	
Any angle off axis	-25 dB (Max.)	
VSWR	1.3:1 (Max.)	1.25:1 (Max.)

Note: (1) Cable lengths higher than 30m will need DC input at the antenna base.
(2) LNB PLL Type required with stability better than ± 25 KHz

Shipping Weights & Dimensions

1 Skid: 132 cm x 117 cm x 155 cm (52" x 46.1" x 61") 170 kg (374.8 lbs)

*The shipping weights/dims can vary for particular shipments depending on actual system configuration, quantity, packaging materials and special requirements

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